

# ONE SYSTEM, ONE PLAN, ONE HAPPY TOWN

## Challenge

The Belleville Conservancy District, located in southern Hendricks County, was formed in the mid-1980's to provide sanitary sewer service to the small community of Belleville and the surrounding area. After more than 20 years, a number of these facilities were beginning to show their age and the flows into the wastewater treatment plant greatly exceeded its capacity. The nearby Town of Plainfield offered to take over and incorporate it into the Town's existing wastewater system.

## Action

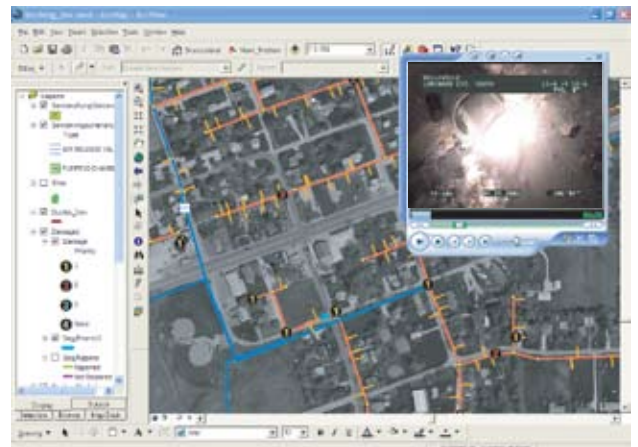
After making a number of immediate improvements, the Town began developing a long-range plan for upgrades and enhancements to the Belleville system. GPS points were collected, including elevations, for major structures in the collection system. The Town was then able to identify sewers that had too much or too little slope.

The Town also used SewerCam to collect video of the system. These images and videos were hyperlinked to corresponding features in the Geographic Information System (GIS), and combined with existing surveyed information. With a wealth of accurate information at their fingertips, the Town was able to effectively analyze and prioritize sewer defects based on location, type, and urgency.

## Results

By using GIS to tie the other disciplines together, the Town was able to:

- Generate a precise and accurate inventory of the entire system
- Gain extensive access to their inventory, including point-and-click access to the sewer videos
- Develop a logical, empirical method of prioritizing repairs and upgrades
- Perform computer modeling of the sewer system to develop an informed maintenance plan



*Tying together information on elevations, pipes, water flow and videos through the Town's GIS.*